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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

Complete if Known				
Application Number	10/728,671			
Filing Date	12-5-03			
First Named Inventor	THOMAS M. MORRIS			
Art Unit	2879			
Examiner Name				
Attorney Docket Number				

				DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4628 422	12-9-86	EWALD	
		US-4729 076	3-1-88	MASAM!	
		US- 4742 432	5-3-88	THILLAYS	
		us 4935 665	6-19-90	MURATA	
		US- 5528 474	6-18-96	IZDNEY	
·		US- 5632 55/	5-27-97	RONEY	
		US- 5782 555	7-21-98	HOCHSTEIN	
		US 5785 418	7-28-98	HOCHSTEIN	
		us 5857 767	1-12-99	HOCHSTEIN	
		US- 6016 038	1-18-00	MUELLER	
		US- 6045240	4-4-00	HOCHSTEIN	
		US- 616/910	12-14-00	REISENAUER	
		US- 6435459	8-20-02	SANDERSON)	
	ļ	US- 6480 389	11-12-03	SHIE	
		US- 6582 100	6-24-03	HOCHSTEIN	
	ļ	US-6517218	2-11-03	HOCHSTEIN	
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶	
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Examiner	***************************************	Date	
Signature		Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

Thomas M. Morris

Serial Number 10/728,671

Filed:

12/5/03

For: LIGHT EMITTING ASSEMBLY WITH HEAT DISSIPATING SUPPORT

Prior Art Statement

Commissioner of Patents P. O. Box 1450 Arlington, Virginia 22203

Dear Sir:

Applicant is aware of the following prior art:

- 1. Ewald U.S. Patent 4,628,422 discloses an LED assembly in which LEDs are mounted in dimples in an anodized aluminum substrate whereby the anodized coating reflects light from the LED.
- 2. Masami U.S. Patent 4,729,076 discloses an LED assembly in which a plurality of LEDs are attached to a circuit board which is secured to a metal heat sink.
- 3. Thillays U.S. Patent 4,742,432 discloses an LED assembly using an anodized aluminum substrate having thermal conducting pins extending through the substrate and in contact with the LEDs.

- 4. Murata U.S. Patent 4,935,665 disclose an LED assembly in which an epoxy layer is bonded to an aluminum substrate, LED's are placed in dimples in the substrate and connected together by wires.
- 5. Roney U.S. Patent 5,528,474 discloses an LED assembly including a circuit board supporting a plurality of LEDs, the circuit board being in contact with a heat sink.
- 6. Roney U.S. Patent 5,632,551 discloses an LED assembly including a circuit board supporting a plurality of LEDs, the circuit board being in contact with a heat sink.
- 7. Hochstein U.S. Patent 5,782,555 discloses an LED assembly including a metal substrate in which the LED's are in thermal contact with the substrate through a thermally conductive adhesive.
- 8. Hochstein U.S. Patent 5,785,418 discloses an LED assembly including a circuit board in heat transmitting relation to a heat sink.
- 9. Hochstein U.S. Patent 5,857,767 discloses an LED assembly including a metal substrate in which the LED's are in thermal contact with the substrate through a thermally conductive adhesive and an electrically insulating layer.
- 10. Mueller U.S. Patent 6,016,038 discloses an LED assembly having multicolor LEDs.

- 11. Hockstein U.S. Patent 6,045,240 discloses an LED assembly including a circuit board supporting a plurality of LEDs bonded by a thermally conductive adhesive to a heat sink.
- 12. Reisenauer U.S. Patent 6,161,910 discloses an LED reading light including a circuit board supporting a plurality of LEDs attached to a heat sink.
- 13. Sanderson U.S. Patent 6,435,459 discloses an LED assembly including a circuit board supporting a plurality of LEDs in thermal contact with a heat sink.
- 14. Shie U.S. Patent 6,480,389 discloses an LED mounted in a depression filled with a heat transferring liquid.
- 15. Hockstein U.S. Patent 6,517,218 discloses an LED supported on a circuit board in thermal contact with a heat sink and a heat sink extension extending away from the heat sink into contact with the LED.
- 16. Hockstein U.S. Patent 6,582,100 discloses an LED mounted on a circuit board which is in contact with an aluminum heat sink.

A copy of each of the above is attached.

For some years, applicant's assignee has been manufacturing an air conditioning fan motor controller having an anodized aluminum substrate which functions as a heat sink. Circuit traces are

screen printed onto the substrate into a pattern that provides a number of resistors ending at terminals on the edge of the substrate. The ink used is a silver-glass mixture available from Metech Polymers, Elverson, Pennsylvania, known as Metech 3270. Connections are soldered to the terminals to attach the motor controller to a circuit which includes a power source. Using a speed control switch, the resistors are placed in circuit with the fan motor to control its speed.

Respectfully submitted,

G. Turner Moller Registration 22,978

In Melle

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